CITY OF FREEPORT 2015 ANNUAL DRINKING WATER QUALITY REPORT



We're pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water source is ground water from six wells. The wells draw from the Floridan Aquifer. Our water is chlorinated for disinfection purposes.

If you have any questions about this report or concerning your water utility, please contact Larry Tuggle at 850-835-2822. We encourage our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the 2nd Tuesday & the 4th Thursday of each month @ 7:00 P.M. Please note Council Meeting times and dates are scheduled for change.

City of Freeport routinely monitors for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2015. Data obtained before January 1, 2015, and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations.

In the table below, you may find unfamiliar terms and abbreviations. To help you better understand these terms, we've provided the following definitions:

Maximum Contaminant Level or MCL: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum residual disinfectant level goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs

do not reflect the benefits of the use of disinfectants to control microbial contaminants. "ND": not detected and indicates that the substance was not found by laboratory analysis.

Parts per billion (ppb) or Micrograms per liter (ug/l): one part by weight of analyte to 1 billion parts by weight of the water sample.

Parts per million (ppm) or Milligrams per liter (mg/l): one part by weight of analyte to 1 million parts by weight of the water sample.

Picocurie per liter (pCi/L): measure of the radioactivity in water.

2015 CONTAMINANTS TABLE

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Microbiological	Contami	nants									
Contaminant and Unit of Measurement	Dates o samplin (mo./yr	g Viola	tion Monthly		MCLO	5			MCL		Likely Source of Contamination
Total Coliform Bacteria	Jan-Dec1				0		month	: presence	of colife	than 40 samples orm bacteria in 1 g a month.	Naturally present in the environment
Contaminant and Unit of Measurement		sampling ./yr.)	MCL Violation Y/N		Level Detected		Range of Results MCLG				of Contamination
Radioactive Con	taminan	ts									
Alpha emitters (pCi/L)	Jun 08	Jun 08-Aug 14		N		NE	D- 2.6	0	15	Erosion of natural deposits	
Radium 226 + 228 or combined radium (pCi/L)	Jun-08	Jun-08-Aug14		N		8 0.1-		0	5	Erosion of natural deposits	
Inorganic Conta	minants										
Barium (ppm)	Sept	Sept 2014		N		0.01	-0.020	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	
Fluoride (ppm)	Sept	Sept 2014		N 0		0.08	3-0.09	4	4.0	Erosion of discharge fraluminum factor which promote	natural deposits; form fertilizer and ories. Water additive as strong teeth when m level of 0.7 ppm
Lead (point of entry) (ppb)	Sept 2014		N		5.1	NE) -5.1	0	15	Residue from such as auto e	man-made pollution missions and paint; asing, and solder
Sodium (ppm)	Sept	Sept 2014			3.3	1.8	3-3.3	NA	160		sion, leaching from soil
Stage 2 Disinfect	ants and	Disinfec	tion By-l	Produ	ucts	•		•	•		
Disinfectant or Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL or MRDL Violation Y/N	Level Detected	Ran of Resu	f MC	LG or RDLG	1	CL or RDL	Likely Source of Contamination		
Chlorine (ppm)	Jan-Dec- 15	N	0.8	0.7		RDLG = 4	G MRDL = 4.0		Water additive used to control microbes		
Haloacetic Acids (five) (HAA5) (ppb)	July 15	N	0.88	NE 0.8)- ,	NA.			By-product of drinking water disinfection		
TTHM [Total trihalomethanes] (ppb)	July 15	N	0.24	NE 0.2		NA	MCL = 80 By-product of drinking water of		water disinfection		

Contaminant and Unit of Measurement	Dates of SAL Sampling Exceeded (mo./yr.) (Y/N)		90th Percentile Result	No. of sampling sites exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination			
Lead and Copper (Tap Water)										
Copper (tap water) (ppm)	Jun-Sept	i N	0.18	0 of 20	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives			
Lead (tap water) (ppb)	Jun-Sept	N	4.9	0 of 20	0	15	Corrosion of household plumbing systems, erosion of natural deposits			

The Freeport Water System had an MCL violation for Total coliform bacteria in September. Two samples tested positive; one more than is allowed by rule. These sample sites were immediately retested with all repeats testing negative (no bacteria present). Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, bacteria may be present. When coliforms are found in more samples than allowed there is a warning of potential problems. All other distribution samples taken during the year were negative (no bacteria present). The bacteriological sampling procedures for this system were reviewed and modified in hopes of ensuring compliance in the future.

In 2015 the Florida Department of Environmental Protection performed a Source Water Assessment on our system. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There are 4 potential sources of contamination identified for this system with low to moderate susceptibility levels. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/ swapp or they can be obtained from the City of Freeport.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. City of Freeport is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://

www.epa.gov/safewater/lead. The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

(A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. (B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

(C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

(D) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

(E) Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental

Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791. In order to ensure that tap water is safe to drink, the EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/ AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC quidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).